

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

17575790 Tiamulin

CA Acetic acid,2-[[2-(diethylamino)ethyl]thio]-,(3aS,4R,5S,6S,8R,9S,9aR,10R)-6-ethenyldcahydro-

IUPAC (1S,2R,3S,4S,6R,7S,14R)-6-[(2-Diethylaminoethylthio)acetoxy]-3-hydroxy-2,4,7,14-tetramethyl-

Formula C₂₈H₄₇NO₄S

Mol.Weight 493.74

CAS No. 55297-95-5

Reference Materials for Residue Analysis

Expiry Date 30.10.2020

Lot Number 156603

Store at 4 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg) 2230

Physical Data

Phase liquid

Color colourless

Melt.Range

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: UHPLC/DAD

Column: NUCLEODUR C18 Gravity, 1.8µ, 100x2mm

Inj.-Vol.: 2.00 µl

Flow: 0.5 ml/min

Ret.-Time: 4.55 min.

Method Details:

Eluent A: WA + 0.5% H₃PO₄

Eluent B: Acetonitrile

Time/min	A	B
0	90%	10%
0.3	90%	10%
8	100%	0%
9.5	100%	0%
10	90%	10%

Identity: UV, RT, MS, EA, NMR

Comment

Water Content Determined by Karl-Fischer Titration

Det. Purity 98.9 % Tolerance/Uncertainty +/- 2.0 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is $Uc(y)*K$, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

Certified on 30.10.2017

by N. Müller

The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

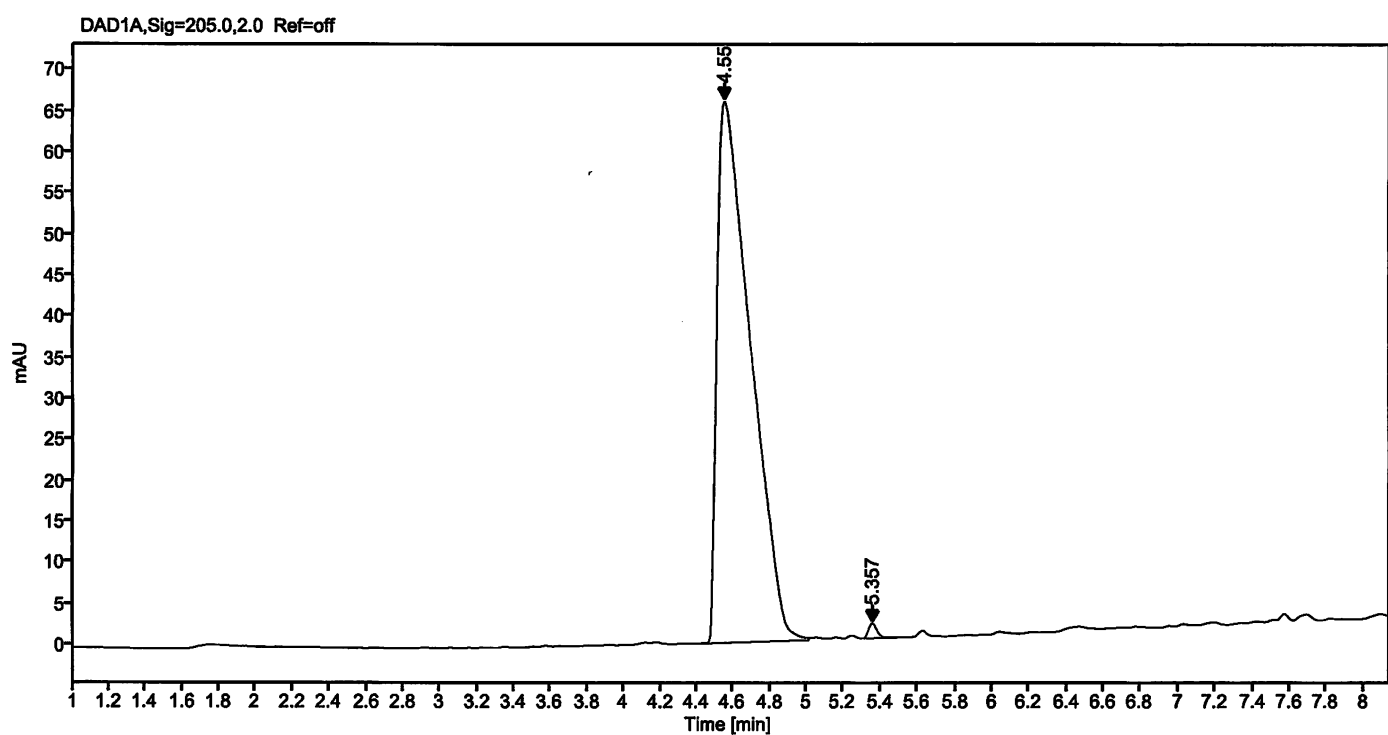
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The warranty for this product is limited to the purchasing price of this product.

2710A
K

Data file: 17575790-03-r001.dx
Sample name: 71025ME 156603
Inj. volume [µl]: 2.0
Acq. method: Gradient_10-100_P.amx

Instrument: UHPLC 1
Sequence Name: 25102017-2
Injection date: 10/25/2017 11:00:13 AM
Location: P1-B6

Sample Description Tiamulin



Signal: DAD1A, Sig=205.0, 2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	4.550	834.97050	65.93	99.31
2	5.357	5.76608	1.81	0.69
	Sum	840.74		